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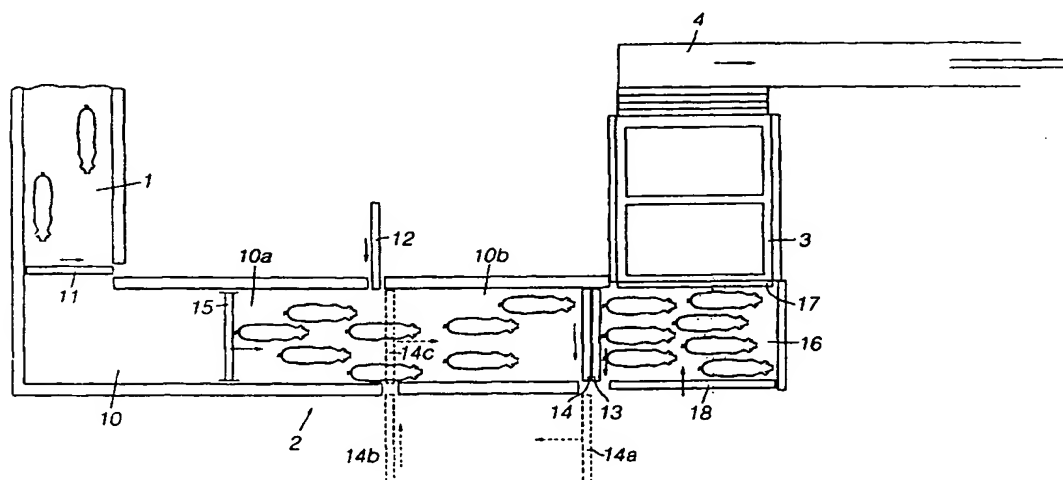
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ARRANGEMENT AND METHOD FOR DIVISION OF ANIMALS INTO GROUPS AND TRANSFER OF GROUPS OF ANIMALS TO A STUNNING APPARATUS



(57) Abstract: An arrangement for division of animals into groups and transfer of groups of animals to a stunning apparatus (3) comprises an oblong corridor section (10) in which animals can be driven from an entrance end to an exit end. It has a division gate (12) in the corridor section between the entrance end and the exit end, which gate is placed in such a way that the corridor area (10b) between the division gate and the exit end has room for a number of animals corresponding to the group size. In continuation of the corridor section (10) a transfer section (16) is placed at the exit end of the section, which transfer section has room for a number of animals corresponding to the group size and has a connection with the entrance to the stunning apparatus. The transfer section between the corridor section and the stunning apparatus provides the advantage that the division process becomes less dependent on the subsequent process where a group of animals are driven into the stunning apparatus and stunned, which increases the capacity of the system.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A22B 1/00, A22B 5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0643917 A2 (SLAGTERIERNES FORSKNING SINSTITUT), 22 March 1995 (22.03.95), column 1, line 24 - column 3, line 1, figure 1, claims 1,2,5	1-3
A	figure 1, claims 1,2,5 --	4-7,9-11, 13-14
X	SE 503565 C2 (SLAGTERIERNES FORSKNING SINSTITUT), 8 July 1996 (08.07.96), page 2 - page 3; page 7, figures 1,2, claims 1,2,6,7 --	1-6,9-14
A	DK 110107 C (SLAGTERIERNES FORSKNING SINSTITUT), 2 December 1968 (02.12.68), page 1 - page 3, figure 1, claims 1-6 -- -----	1-6

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Patent document cited in search report			Publication date	Patent family member(s)	Publication date
EP	0643917	A2	22/03/95	SE 0643917 T3	
				AT 164727 T	15/04/98
				CA 2035511 A,C	09/08/91
				DE 69129243 D,T	06/08/98
				DK 33490 D	00/00/00
				DK 643917 T	23/11/98
				EP 0441633 A	14/08/91
				FI 910588 A	09/08/91
				IE 62049 B	14/12/94
				IE 910397 A	14/08/91
				US 5186677 A	16/02/93
SE	503565	C2	08/07/96	CA 1337789 A	26/12/95
				DE 3835763 A,C	03/05/89
				DK 552887 A	23/04/89
				FI 100578 B	00/00/00
				FI 884882 A	23/04/89
				GB 2211389 A,B	05/07/89
				GB 8824385 D	00/00/00
				IE 61095 B	21/09/94
				IE 883019 L	22/04/89
				NL 8802581 A	16/05/89
				NO 171142 B,C	26/10/92
				NO 884726 A	24/04/89
				SE 8803764 A	23/04/89
				US 5009191 A	23/04/91
DK	110107	C	02/12/68	US 3487497 A	06/01/70